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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/666,097 09/1		09/19/2003 Hong Gan		18052	7129	
26794	7590	05/19/2005	EXAMINER			
		IICS CORPOR	NGUYEN, KHANH V			
4550 NEW I WILMING		HILL ROAD, SI 19808	JITE 450	ART UNIT	PAPER NUMBER	
	,			2817		
				DATE MAILED: 05/19/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)						
		10/666,09	7	GAN ET AL.						
	Office Action Summary	Examiner		Art Unit	· · · · · · · · · · · · · · · · · · ·					
	•	Khanh V. N	lguyen	2817						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply										
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status	•									
1)⊠	Responsive to communication(s) filed o	n <u>28 February 200</u>	<u>95</u> .							
2a) <u></u> □	This action is FINAL . 2b)	☑ This action is no	on-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims										
4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.										
Applicati	on Papers									
9) The specification is objected to by the Examiner.										
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.										
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.										
Priority (ınder 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
Attachmen	t(s) e of References Cited (PTO-892)		4) Interview Summary	, (PTO-412)						
2) Notice 3) Information	the of References Cited (PTO-892) the of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449 or PTO- ter No(s)/Mail Date 1/18/05.	*	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	52)					

DETAILED ACTION

Claim Objections

Claims 3 and 4 are objected to because of the following informalities: these claims appear to be the same. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1, 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Holden et al. (6,411,655).

Regarding claim 1, Holden et al. (Fig. 1) disclose an apparatus comprising: a digital signal processing (10) can be read as an amplitude mapping circuit for converting at least a portion of Digital Amplitude Value (b2-b(n)) to a binary word/value; and plurality of amplifiers (PA1-PA(n)) coupled to the amplitude mapping circuit (10), wherein the binary value is transmitted to at least one of the plurality of amplifier to specify a gain level of the amplifier.

Regarding claim 5, wherein Holden et al. digital signal processor (10) may have a gain control source for applying the binary value to at least one of the plurality of amplifiers (PA1-PA(n)).

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Claims 1-5, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Grondahl (5,936,464).

Grondahl (Fig. 1) disclose an apparatus comprising: a power divider for dividing a signal into amplitude (see col. 3, lines 64-67) and phase (see col. 2, lines 53-67) paths; an A/D converter (257) can be read as an amplitude mapping circuit for converting at least a portion of amplitude signal, see col. 3, lines 64-67, to digital word which can be read as binary value; and a variable gain amplifier (252) including a plurality of transistors which can be read as plurality of amplifiers, see Fig. 6, coupled to the amplitude mapping circuit (257), wherein the binary value is transmitted to at least one of the plurality of amplifiers to specify a gain level of the amplifier.

Regarding claims 3, 4, wherein a frequency converter 245) can be read a claimed modulator.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Husseini (6,859,098).

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Husseini (Figs. 1, 5) discloses a control system comprising: a scaling (609) can be read as an amplitude mapping circuit for converting an AMPLITUDE signal to a digital word which can be read as binary value, see col. 6, lines 46-67; and an amplifier block (602) comprises a plurality of amplifiers (604, 606, 608) coupled to the amplitude mapping circuit, wherein the binary value is capable of specifying a gain level of the amplifier.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 6, 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Holden et al. or Grondahl or Husseini, now called PRIOR ARTs in view of Choi (6,765,439).

PRIOR ARTs disclose the claimed invention except input and output matching circuits as claimed.

Choi (Fig. 2) disclosed a power amplifier having input and output matching circuits (220, 222).

Accordingly, it would have been obvious in view of the reference, taken as a whole, to have modified the circuit of PRIOR ARTs to have included an input matching and output matching cirucit, as taught by Choi. Such a modification would have imparted the advantageous benefit of provided matching input and output impedances for the amplifier, thereby suggesting the obviousness of such a modification. Regarding claim 7, a gain control source coupled to a control terminal of the at least one of the amplifiers is inherently seen in the reference circuit.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional reference (Schell et al. (6,751,265)) shows further analogous prior art circuitry having digital word.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KHANH VAN NGUYEN PRIMARY EXAMINER

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